BRAIN RESEARCH
MOLECULAR BRAIN RESEARCH

VOL. 39 NOS. 1,2 **CONTENTS** **JULY 1996**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Publisher's Note v

Guidelines for the submission of manuscripts vii

Research reports

Developmental and denervation changes in *c-ret* proto-oncogene expression in chick motoneurons
M. Nakamura, K. Ohta, K. Hirokawa, M. Fukushima, M. Uchino, M. Ando and H. Tanaka (Japan) 1

Serum deprivation alters the expression and the splicing at exons 7, 8 and 15 of the β-amyloid precursor protein in the C6 glioma cell line
S. Sudoh, H. Kawakami and S. Nakamura (Japan) 12

Cloning of a G protein-activated inwardly rectifying potassium channel from human cerebellum
O. Schoots, K.-T. Yue, J.F. MacDonald, D.R. Hampson, J.N. Nobrega, L.M. Dixon and H.H.M. Van Tol (Canada, Netherlands) 23

Increased expression of basic fibroblast growth factor (bFGF) following focal cerebral infarction in the rat
E.K. Speliotes, C.G. Caday, T. Do, J. Weise, N.W. Kowall and S.P. Finklestein (USA) 31

Characterization and phosphorylation of CREB-like proteins in *Aplysia* central nervous system
P.K. Dash and A.N. Moore (USA) 43

Trigeminal ganglion neurons are protected by the heat shock proteins hsp70 and hsp90 from thermal stress but not from programmed cell death following nerve growth factor withdrawal
S. Wyatt, C. Mailhos and D.S. Latchman (UK) 52

Hormonal regulation of androgen receptor messenger RNA in the medial preoptic area of the male rat
R.J. Handa, J.E. Kerr, L.L. DonCarlos, R.F. McGivern and G. Hejna (USA) 57

Histone hyperacetylating agents stimulate promoter activity of human choline acetyltransferase gene in transfection experiment
M. Chireux, E. Espinos, S. Bloch, M. Yoshida and M.J. Weber (France, Japan) 68

AD2, a phosphorylation-dependent monoclonal antibody directed against tau proteins found in Alzheimer's disease
V. Buée-Scherrer, O. Condamines, C. Mourton-Gilles, R. Jakes, M. Goedert, B. Pau and A. Delacourte (France, UK) 79

Regulation of vasoactive intestinal polypeptide and galanin mRNA stabilities
P.J. Tolentino and L. Villa-Komaroff (USA) 89

Alternative splicing of the NMDAR1 subunit affects modulation by calcium
V.V. Koltchine, V. Anantharam, H. Bayley and S.N. Treistman (USA) 99

AP-1 DNA binding activity induced by hyperosmolality in the rat hypothalamic supraoptic and paraventricular nuclei
Z. Ying, D. Reisman and J. Buggy (USA) 109

The melatonin receptor in the human brain: cloning experiments and distribution studies
C. Mazzucchelli, M. Pannacci, R. Nonno, V. Lucini, F. Fraschini and B.M. Stankov (Italy) 117

Expression of dopamine transporter mRNA and its binding site in fetal nigral cells transplanted into the striatum of 6-OHDA lesioned rat
M. Fujita, H. Nishino, M. Kumazaki, S. Shimada, M. Tohyama and T. Nishimura (Japan, USA) 127

Induction of clusterin in the immature brain following a hypoxic–ischemic injury
M. Walton, D. Young, E. Sirimanne, J. Dodd, D. Christie, C. Williams, P. Gluckman and M. Dragunow (New Zealand) 137

The growth hormone-releasing peptide KP-102 induces c-*fos* expression in the arcuate nucleus
J. Kamegai, O. Hasegawa, S. Minami, H. Sugihara and I. Wakabayashi (Japan) 153

Dopamine transporter gene expression in rat mesencephalic dopaminergic neurons is increased by direct interaction with target striatal cells in vitro
C. Perrone-Capano, A. Tino, G. Amadoro, R. Pernas-Alonso and U. Di Porzio (Italy) 160

The 71 kDa glutamate-binding protein is increased in cerebellar granule cells after chronic ethanol treatment
P.L. Hoffman, S.V. Bhave, K.N. Kumar, K.R. Iorio, L.D. Snell, B. Tabakoff and E.K. Michaelis (USA) 167

Transcriptional enhancement of tyrosine hydroxylase by prostaglandin E_2 in SK-N-BE(2)C cells
J.-S. Kim, H.-D. Chae, S.-Y. Choi and K.-T. Kim (South Korea) 177

A comprehensive study of the spatiotemporal pattern of β-amyloid precursor protein mRNA and protein in the rat brain: lack of modulation by exogenously applied nerve growth factor
R.L. Neve, J.S. Valletta, Y. Li, M. Ventosa-Michelman, D.M. Holtzman and W.C. Mobley (USA) 185

Regional variability in changes in 5-HT_{2A} receptor mRNA levels in rat brain following irreversible inactivation with EEDQ
R.K. Raghupathi, R. Artymyshyn and P. McGonigle (USA) 198

(contents continued on p. 248)

0169-328X(199607)39:1/2;1-0

BRAIN RESEARCH
MOLECULAR BRAIN RESEARCH

VOL. 39 NOS. 1,2 **CONTENTS** **JULY 1996**

Cited in Biological Abstracts (BIOSIS) – Chem. Abstracts – Index Medicus (MEDLINE) – Current Contents (Life Sci.) – Excerpta Medica (EMBASE) – Psychological Abstracts (PsycINFO) – Pascal et Francis (INIST-CNRS) – RIS (Reference Update) – Current Awareness in Biological Science (CABS)

Publisher's Note v

Guidelines for the submission of manuscripts vii

Research reports

Developmental and denervation changes in *c-ret* proto-oncogene expression in chick motoneurons
M. Nakamura, K. Ohta, K. Hirokawa, M. Fukushima, M. Uchino, M. Ando and H. Tanaka (Japan) 1

Serum deprivation alters the expression and the splicing at exons 7, 8 and 15 of the β-amyloid precursor protein in the C6 glioma cell line
S. Sudoh, H. Kawakami and S. Nakamura (Japan) 12

Cloning of a G protein-activated inwardly rectifying potassium channel from human cerebellum
O. Schoots, K.-T. Yue, J.F. MacDonald, D.R. Hampson, J.N. Nobrega, L.M. Dixon and H.H.M. Van Tol (Canada, Netherlands) 23

Increased expression of basic fibroblast growth factor (bFGF) following focal cerebral infarction in the rat
E.K. Speliotes, C.G. Caday, T. Do, J. Weise, N.W. Kowall and S.P. Finklestein (USA) 31

Characterization and phosphorylation of CREB-like proteins in *Aplysia* central nervous system
P.K. Dash and A.N. Moore (USA) 43

Trigeminal ganglion neurons are protected by the heat shock proteins hsp70 and hsp90 from thermal stress but not from programmed cell death following nerve growth factor withdrawal
S. Wyatt, C. Mailhos and D.S. Latchman (UK) 52

Hormonal regulation of androgen receptor messenger RNA in the medial preoptic area of the male rat
R.J. Handa, J.E. Kerr, L.L. DonCarlos, R.F. McGivern and G. Hejna (USA) 57

Histone hyperacetylating agents stimulate promoter activity of human choline acetyltransferase gene in transfection experiment
M. Chireux, E. Espinos, S. Bloch, M. Yoshida and M.J. Weber (France, Japan) 68

AD2, a phosphorylation-dependent monoclonal antibody directed against tau proteins found in Alzheimer's disease
V. Buée-Scherrer, O. Condamines, C. Mourton-Gilles, R. Jakes, M. Goedert, B. Pau and A. Delacourte (France, UK) 79

Regulation of vasoactive intestinal polypeptide and galanin mRNA stabilities
P.J. Tolentino and L. Villa-Komaroff (USA) 89

Alternative splicing of the NMDAR1 subunit affects modulation by calcium
V.V. Koltchine, V. Anantharam, H. Bayley and S.N. Treistman (USA) 99

AP-1 DNA binding activity induced by hyperosmolality in the rat hypothalamic supraoptic and paraventricular nuclei
Z. Ying, D. Reisman and J. Buggy (USA) 109

The melatonin receptor in the human brain: cloning experiments and distribution studies
C. Mazzucchelli, M. Pannacci, R. Nonno, V. Lucini, F. Fraschini and B.M. Stankov (Italy) 117

Expression of dopamine transporter mRNA and its binding site in fetal nigral cells transplanted into the striatum of 6-OHDA lesioned rat
M. Fujita, H. Nishino, M. Kumazaki, S. Shimada, M. Tohyama and T. Nishimura (Japan, USA) 127

Induction of clusterin in the immature brain following a hypoxic–ischemic injury
M. Walton, D. Young, E. Sirimanne, J. Dodd, D. Christie, C. Williams, P. Gluckman and M. Dragunow (New Zealand) 137

The growth hormone-releasing peptide KP-102 induces c-*fos* expression in the arcuate nucleus
J. Kamegai, O. Hasegawa, S. Minami, H. Sugihara and I. Wakabayashi (Japan) 153

Dopamine transporter gene expression in rat mesencephalic dopaminergic neurons is increased by direct interaction with target striatal cells in vitro
C. Perrone-Capano, A. Tino, G. Amadoro, R. Pernas-Alonso and U. Di Porzio (Italy) 160

The 71 kDa glutamate-binding protein is increased in cerebellar granule cells after chronic ethanol treatment
P.L. Hoffman, S.V. Bhave, K.N. Kumar, K.R. Iorio, L.D. Snell, B. Tabakoff and E.K. Michaelis (USA) 167

Transcriptional enhancement of tyrosine hydroxylase by prostaglandin E_2 in SK-N-BE(2)C cells
J.-S. Kim, H.-D. Chae, S.-Y. Choi and K.-T. Kim (South Korea) 177

A comprehensive study of the spatiotemporal pattern of β-amyloid precursor protein mRNA and protein in the rat brain: lack of modulation by exogenously applied nerve growth factor
R.L. Neve, J.S. Valletta, Y. Li, M. Ventosa-Michelman, D.M. Holtzman and W.C. Mobley (USA) 185

Regional variability in changes in 5-HT_{2A} receptor mRNA levels in rat brain following irreversible inactivation with EEDQ
R.K. Raghupathi, R. Artymyshyn and P. McGonigle (USA) 198

(contents continued on p. 248)

0169-328X(199607)39:1/2;1-0

(contents continued from back cover)

ST/b and DBA/2 mice differ in brain α-bungarotoxin binding and α7 nicotinic receptor subunit mRNA levels: a quantitative autoradiographic analysis
M.J. Marks, J.R. Pauly, E. Ullman Grun and A.C. Collins (USA) 207

Comparative anatomical distribution of serotonin 1A, 1Dα and 2A receptor mRNAs in human brain postmortem
M. Pasqualetti, I. Nardi, H. Ladinsky, D. Marazziti and G.B. Cassano (Italy) 223

Short communications

Detection of the *reelin* breakpoint in reeler mice
G. D'Arcangelo, G.G. Miao and T. Curran (USA) 234

L-DOPA regulates glutamate decarboxylases mRNA levels in MPTP-treated monkeys
J.-J. Soghomonian, S. Pedneault, P.J. Blanchet, M. Goulet, T. Di Paolo and P.J. Bédard (Canada) 237

Identification of the $GABA_A$ receptor α-subunit mRNA in rat intestine
D.K. Zeiter, X. Li and D.L. Broussard (USA) 241

Author Index 245